Aron Teh

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💼 Professional Experience

Stripe   Mar 2024 – present | Dublin, Ireland
Software Engineer

- Extended Klarna integration pricing structure to support custom pricing for *multiple financing periods* ⧉ .
  - Facilitated **$25M+/month** in new payment volume due to early adoption from large enterprise merchants.
  - Coordinated between engineering, product and pricing teams, coding across **Ruby** and **Java** codebases.
  - Identified critical pricing system shortfalls. Proposed and rallied large cross-team improvement efforts.
- Built **API** features for Stripe's Klarna Integration in collaboration with Klarna's major version API upgrade.
  - Individually **scoped** and implemented a complex, nested Supplementary Purchase Data field, enabling Klarna to complete assertive risk assessments, minimising fraud and improving conversion.
  - Introduced support to correlate *purchase countries with payments* ⧉ , facilitating regulatory compliance.
- **Organised** and hosted a 3-day knowledge sharing onsite for a newly-formed team of **4** Stripe engineers.
- Served on the interview committee. Wrote and provided guidance for new interview question creation.

Amazon   Nov 2022 – Feb 2024 | London, U.K.
Software Engineer

- Implemented right-to-left language and layout support for Prime Video's **React/TypeScript** application.
  - Built the 2-dimension RTL input navigation logic, and the global application direction state manager.
  - Planned and delegated tasks to **3** engineers. Launch in **8** regions increased Prime subscriptions by **11.52%**.
- Redesigned legacy React elements into performant **SolidJS** components, reducing app FPS bottlenecks.
- Migrated Prime Video's metrics and monitoring system to a structured, efficient and predictable platform.
- Resolved customer-impacting high severity on-call **incidents,** utilising **AWS** CloudWatch and Elasticsearch.

THG   Sep 2021 – Oct 2022 | Manchester, U.K.
Software Engineer

- Developed complex **Angular UI**s in collaboration with UX designers, used by 100+ enterprise clients.
- Maintained Java **GraphQL APIs** powering the Content Management System (CMS) for *THG Commerce* ⧉ .
- Created and owned the team's **documentation**, improving engineer onboarding and development velocity.

🎓 Education

Imperial College London   2017 – 2021 | London, United Kingdom
MEng Aeronautical Engineering, 2:1 (69.6%)

- Master's Thesis ⧉ : Explored a parallel **Python** implementation and solution to the sparse conic optimisation problem, using the Alternating Direction Method of Multipliers.
- Modules: **High Performance Computing**, Mathematics, Numerical Analysis, Optimisation, Finance.

🧠 Technical Skills

HTML , CSS, JavaScript , TypeScript , Java , Python , Ruby , SQL , Git , REST , React (v18) , Next.js , Angular , Firebase , Tailwind , MongoDB , Jest , JUnit , npm , Bash , Testing (Unit, Integrated, E2E), AWS , gRPC, Docker , Kubernetes , Continuous Integration , Continuous Deployment , GraphQL , Bazel, Flask

🌐 Languages

English (Native) | **Chinese** (Native) | **German** (Beginner) | **Cantonese** (Beginner)

♟ Interests

Chess ⧉ (Youngest Malaysia National Chess Champion (2013); FIDE Master (Lifetime International Title); World Chess Olympiad Participant (Norway 2014); President of Imperial College London Chess Club (2018-2019), won 1st place in every competition, 2700+ Chess.com/Lichess, Private Chess Coach) |

Quantitative Finance | **Machine Learning** ⧉ | **Sports** (Swimming, Badminton) | **Music**